No. 9900403

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Resource Seeds, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE , OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, COMMON

'Stander'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twelfth day of September, in the year two thousand one.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

REPRODUCE LOCALLY. *Include form number and date on all reproductions.* FORM APPROVED - OMB NO. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) *(as it is to appear on the Certificate)*
RESOURCE SEEDS, INC

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER
RSI 95W10108

3. VARIETY NAME
STANDER

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*
P.O. BOX 1319
Gilroy, CA 95021

5. TELEPHONE *(include area code)*
408/847-1051

6. FAX *(include area code)*
408/847-0604

FOR OFFICIAL USE ONLY

PVPO NUMBER
9900403

FILING DATE
8-30-1999

7. GENUS AND SPECIES NAME
Triticum aestivum

8. FAMILY NAME *(Botanical)*
Gramineae

9. CROP KIND NAME *(Common name)*
Common

FEES RECEIVED
FILING AND EXAMINATION FEE: $ 2450.00
DATE 8-30-1999
CERTIFICATION FEE: $ 320 a2
DATE 8/31/01

10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION *(corporation, partnership, association, etc.) (Common name)*
Corporation

11. IF INCORPORATED, GIVE STATE OF INCORPORATION
California

12. DATE OF INCORPORATION
October 1, 1990

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS
Dr. George Fohner
Resource Seeds, Inc.
P.O. Box 1319
Gilroy, CA 95021

14. TELEPHONE *(include area code)*
408/847-1051

15. FAX *(include area code)*
408/847-0604

16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED *(Follow instructions on reverse)*

a. ☒ Exhibit A. Origin and Breeding History of the Variety
b. ☒ Exhibit B. Statement of Distinctness
c. ☒ Exhibit C. Objective Description of the Variety
d. ☒ Exhibit D. Additional Description of the Variety *(Optional)*
e. ☒ Exhibit E. Statement of the Basis of the Applicant's Ownership
f. ☒ Voucher Sample *(2,500 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in an approved public repository)*
g. ☒ Filing and Examination Fee ($2,460), made payable to "Treasurer of the United States" *(Mail to PVPO)*

17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? *(See Section 83(a) of the Plant Variety Protection Act)*
☐ YES *(If "yes," answer items 18 and 19 below)* ☒ NO *(If "no," go to item 20)* Not at this time

18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☐ YES ☐ NO

19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?
☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?
☒ YES *(If "yes," give names of countries and dates)* USA October 1998 ☐ NO

21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT *(Owner(s))*	SIGNATURE OF APPLICANT *(Owner(s))*
George Fohner	
NAME *(Please print or type)* George Fohner	NAME *(Please print or type)*
CAPACITY OR TITLE President	DATE 8/25/99
CAPACITY OR TITLE	DATE

STD-470 (03-96) *(Previous editions are to be destroyed)* *(See reverse for instructions and information collection burden statement)*

STANDER WHEAT

Exhibit A. Origin and breeding history of the variety.

STANDER (RSI 95W10108) wheat is the result of hybridization, individual plant and bulk selection from the cross Cleo / 2 Inia // Tadorna / 2 Inia /3/ Probrand 775. Both Cleo / 2 Inia and Tadorna / 2 Inia are Septoria tritici resistant lines obtained from the University of California at Davis. Probrand 775 is a release from the once existant Northrup King, Co. breeding program.

The cross of Cleo / 2 Inia by Tadorna / 2 Inia was made in the field at Woodland, California in spring, 1990. The F1 was grown at Gonzales, California in summer, 1990. F2 and F3 plant selections were made at Woodland and Gonzales respectively in 1991. In 1992 at Woodland, an F4 derived F3 Gonzales plant selection was crossed to Probrand 775. The F1 generation was advanced at Gonzales the same year, followed by F2 and F3 plant selections at Woodland and Gonzales, respectively in 1993. A F4 row selection was bulked in 1994 and advanced to a preliminary yield trial at Woodland and Tulare, California in 1995. Favorable results moved this line, now designated as 95W10108, to further trial testing in 1996 and 1997. The criteria for selection for each generation in the development of Stander are outlined in Table A1.

Seed purification of this line began in 1995 when 25 spikes were selected at random from Woodland preliminary yield trial plot. These were grown in head rows at Woodland in 1996. Further spike selections were made within 4 head rows and subsequently moved to Gonzales for another head row planting the same summer. Twelve uniform head rows, were harvested and planted at Woodland for the 1996-1997 crop year. Five of the 12 lines were harvested and bulked to produce prebreeder seed used for a breeder seed increase at Gonzales, summer 1997. Breeder seed is in the F11 generation.

On the basis of our experience producing Breeder and Foundation seed, the variety appears to be uniform and stable. Uniformity for height, glume color, and rachis internode pubescence was established in the F5 and F6 generations and has been observed to be stable for these traits in all subsequent generations (a total of four).

It has been noted that during multiplication that variants, primarily later and taller than Stander, can be found at a frequency of less than 0.5%.

STANDER WHEAT

Exhibit A. Origin and breeding history of the variety. (continued)

Table A1. Selection Criteria

Generation	Criteria for Selection
P1 x P2	None
F1	None
F2 through F4	Select for resistance or tolerance to diseases: Septoria leaf blotch Stripe rust Barley yellow dwarf virus Powdery mildew Leaf rust Select for: Reduced height High tiller number Seed color (red or white) Seed plumpness Select against: Lodging
F5 through F7	Select for: High grain yield Reduced lodging Little or no disease High protein High yield stability was first noted in the F6 generation and confirmed in all subsequent generations.

STANDER WHEAT

Exhibit B. Statement of Distinctness

Stander differs from all varieties presently grown in both the Sacramento and San Joaquin Valleys of California. It is most similar to the variety Bonus, but is significantly later to reach heading (Table B1) and more resistant to lodging (Table B2). Compared to the varieties Brooks and Yecora Rojo, Stander also is significantly later to reach heading (Table B1) and more resistant to lodging (Table B2). Compared to the varieties RSI 5 and Express, Stander is significantly more resistant to lodging (Table B2) and shorter (Table B3).

STANDER WHEAT

Exhibit B. Statement of Distinctness (continued)

Table B1. Heading Date (days after March 1)
University of California Regional Performance Tests

	Stander	Bonus	Brooks	Yecora rojo	LSD(0.05)
1998					
UC Davis	36	32	33	28	3
Imperial Co.	23	20	17	15	1
2000					
UC Davis	30	25	22	20	2
Imperial Co.	17	12	13	10	2

Table B2. Lodging at Harvest
University of California Regional Performance Tests

	Stander	Bonus	Brooks	Yecora Rojo	RSI 5	Express	LSD 0.05
1998							
UC Davis	4.8	7.8	8.0	8.0	8.0	7.8	1.1
Colusa Co.	1.8	7.5	7.3	8.0	7.3	7.8	1.5
2000							
Colusa Co.	1.0	3.5	5.0	6.5	2.3	1.8	1.4
Sutter Co.	2.3	5.8	6.8	6.8	4.0	4.3	1.4
UC Davis	1.0	4.5	4.5	5.5	4.0	7.5	1.6
Kern Co.	1.8	8.0	7.8	7.8	5.8	7.3	1.4

Rating scale for lodging: 1 = 0 to 3 % 2 = 4 to 14 % 3 = 15 to 29 % 4 = 30 to 49%
5 = 50 to 69 % 6 = 70 to 84 % 7 = 85 to 95 % 8 = 96 to 100 %

STANDER WHEAT

Exhibit B. Statement of Distinctness (continued)

Table B3. Plant Height (inches)
University of California Regional Performance Tests

	Stander	RSI 5	Express	LSD(0.05)
1998				
UC Davis	38	44	40	2.0
Colusa Co.	34	41	40	3
Imperial Co.	35	43	43	2
2000				
Colusa Co.	30	35	34	2
Sutter Co.	32	37	38	3
Imperial Co.	32	36	38	1

FORM APPROVED: OMB NO. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
COMMODITIES SCIENTIFIC SUPPORT DIVISION
BELTSVILLE, MARYLAND 20705

EXHIBIT C
(Wheat)

OBJECTIVE DESCRIPTION OF VARIETY
WHEAT (*TRITICUM SPP.*)

INSTRUCTIONS: *See Reverse.*

NAME OF APPLICANT(S)
RESOURCE SEEDS, INC.

ADDRESS (*Street and No. or R.F.D. No., City, State, and ZIP Code*)
P.O. BOX 1319
Gilroy, CA 95021

FOR OFFICIAL USE ONLY
PVPO NUMBER 9900403
VARIETY NAME OR TEMPORARY DESIGNATION
STANDER

Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. [0][8][9] or [0][9]) when number is either 99 or less or 9 or less.

1. KIND:
[1] 1 = COMMON 2 = DURUM 3 = EMMER 4 = SPELT 5 = POLISH 6 = POULARD 7 = CLUB

2. TYPE:
[1] 1 = SPRING 2 = WINTER 3 = OTHER (*Specify*) _____
[2] 1 = SOFT 2 = HARD 3 = OTHER (*Specify*) _____
[2] 1 = WHITE 2 = RED 3 = OTHER (*Specify*) _____

3. SEASON - NUMBER OF DAYS FROM EMERGENCE TO:
[0][9][4] FIRST FLOWERING
[1][0][8] LAST FLOWERING

4. MATURITY (*50% Flowering*):
[ ][ ] NO. OF DAYS *EARLIER* THAN .....
[0][7] NO. OF DAYS *LATER* THAN ..Yecora Rojo.....
[ ] 1 = ARTHUR 2 = SCOUT 3 = CHRIS 4 = LEMHI 5 = NUGAINES 6 = LEEDS

5. PLANT HEIGHT (*From soil level to top of head*):
[8][1][ ] CM. HIGH
[ ][ ] CM. TALLER THAN .....
[1][3] CM. SHORTER THAN RSI.5.....
[ ] 1 = ARTHUR 2 = SCOUT 3 = CHRIS 4 = LEMHI 5 = NUGAINES 6 = LEEDS

6. PLANT COLOR AT BOOTING (*See reverse*):
[3] 1 = YELLOW GREEN 2 = GREEN 3 = BLUE GREEN

7. ANTHER COLOR:
[1] 1 = YELLOW 2 = PURPLE

8. STEM:
[1] Anthocyanin: 1 = ABSENT 2 = PRESENT
[2] Waxy bloom: 1 = ABSENT 2 = PRESENT
[2] Hairiness of last internode of rachis: 1 = ABSENT 2 = PRESENT
[1] Internodes: 1 = HOLLOW 2 = SOLID
[ ][ ] NO. OF NODES (*Originating from node above ground*)
[ ][ ] CM. INTERNODE LENGTH BETWEEN FLAG LEAF AND LEAF BELOW

9. AURICLES:
[1] Anthocyanin: 1 = ABSENT 2 = PRESENT
[1] Hairiness: 1 = ABSENT 2 = PRESENT

10. LEAF:
[2] Flag leaf at booting stage: 1 = ERECT 2 = RECURVED 3 = OTHER (*Specify*): _____
[2] Flag leaf: 1 = NOT TWISTED 2 = TWISTED
[ ] Hairs of first leaf sheath: 1 = ABSENT 2 = PRESENT
[2] Waxy bloom of flag leaf sheath: 1 = ABSENT 2 = PRESENT
[0][9] MM. LEAF WIDTH (*First leaf below flag leaf*)
[1][7] CM. LEAF LENGTH (*First leaf below flag leaf*):

FORM LMGS 470-6 (6-82) (Formerly Form LPGS 470-6 (3-79), which may be used)

STANDER

9900403

11. HEAD:

[1] Density: 1 = LAX 2 = DENSE

[4] Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE 4 = OTHER (Specify) oblong

[4] Awnedness: 1 = AWNLESS 2 = APICALLY AWNLETED 3 = AWNLETED 4 = AWNED

[7] Color at maturity: 1 = WHITE 2 = YELLOW 3 = PINK 4 = RED 5 = BROWN 6 = BLACK 7 = OTHER (Specify): white amber

[0 8] CM. LENGTH [1 7] MM. WIDTH

12. GLUMES AT MATURITY:

[3] Length: 1 = SHORT (CA. 7 mm.) 2 = MEDIUM (CA. 8 mm.) 3 = LONG (CA. 9 mm.)

[3] Width: 1 = NARROW (CA. 3 mm.) 2 = MEDIUM (CA. 3.5 mm.) 3 = WIDE (CA. 4 mm.)

[5] Shoulder shape: 1 = WANTING 2 = OBLIQUE 3 = ROUNDED 4 = SQUARE 5 = ELEVATED 6 = APICULATE

[3] Beak: 1 = OBTUSE 2 = ACUTE 3 = ACUMINATE

13. COLEOPTILE COLOR:

[1] 1 = WHITE 2 = RED 3 = PURPLE

14. SEEDLING ANTHOCYANIN:

[1] 1 = ABSENT 2 = PRESENT

15. JUVENILE PLANT GROWTH HABIT:

[3] 1 = PROSTRATE 2 = SEMI-ERECT 3 = ERECT

16. SEED:

[3] Shape: 1 = OVATE 2 = OVAL 3 = ELLIPTICAL

[2] Cheek: 1 = ROUNDED 2 = ANGULAR

[2] Brush: 1 = SHORT 2 = MEDIUM 3 = LONG

[2] Brush: 1 = NOT COLLARED 2 = COLLARED

[ ] Phenol reaction (See instructions): 1 = IVORY 2 = FAWN 3 = LT. BROWN 4 = BROWN 5 = BLACK

[3] Color: 1 = WHITE 2 = AMBER 3 = RED 4 = PURPLE 5 = OTHER (Specify)

[0 7] MM. LENGTH [0 3] MM. WIDTH [4 0] GM. PER 1000 SEEDS

17. SEED CREASE:

[1] Width: 1 = 60% OR LESS OF KERNEL 'WINOKA' narrow 2 = 80% OR LESS OF KERNEL 'CHRIS' 3 = NEARLY AS WIDE AS KERNEL 'LEMHI'

[2] Depth: 1 = 20% OR LESS OF KERNEL 'SCOUT' mid-deep 2 = 35% OR LESS OF KERNEL 'CHRIS' 3 = 50% OR LESS OF KERNEL 'LEMHI'

18. DISEASE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

[ ] STEM RUST (Races) [ ] LEAF RUST (Races) [ ] STRIPE RUST (Races) [ ] LOOSE SMUT

[ ] POWDERY MILDEW [ ] BUNT [ ] OTHER (Specify)

19. INSECT: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

[ ] SAWFLY [ ] APHID (Bydv.) [ ] GREEN BUG [ ] CEREAL LEAF BEETLE

[ ] OTHER (Specify) HESSIAN FLY RACES: [ ] GP [ ] A [ ] B [ ] C [ ] D [ ] E [ ] F [ ] G

20. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	RSI 5	Seed size	Express
Leaf size		Seed shape	Serra
Leaf color		Coleoptile elongation	
Leaf carriage		Seedling pigmentation	

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

(a) L.W. Briggle and L. P. Reitz, 1963, Classification of Triticum Species and Wheat Varieties Grown in the United States, Technical Bulletin 1278, United States Department of Agriculture.

(b) W.E. Walls, 1965, A Standardized Phenol Method for Testing Wheat Seeds for Varietal Purity, contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts. (See attachment.)

STANDER WHEAT

Exhibit D. Additional description of the variety.

Stander wheat is a two gene dwarf, about 32" in height, and is a hard red spring type. The spike is awned, mid-long and mid-wide and has an oblong shape. It is also considered lax but erect at maturity. The glumes are a white-amber color and both long and wide in size. The rachis internodes are very pubescent.

The seed of Stander is mid-long and mid-wide. It has a large brush and is collared. When considering most seed characteristics, seed of Stander is most similar to that of the wheat variety Express.

Appl. No. 990403
Stander
Wheat
Exhibit D - Addendum
Milling & Baking Quality Data

990403

DEPARTMENT OF AGRONOMY AND RANGE SCIENCE
UCDAVIS

AGRONOMY PROGRESS REPORT

Agricultural Experiment Station Cooperative Extension

October 1999 • No. 265

1999 REGIONAL BARLEY, COMMON AND DURUM WHEAT, TRITICALE, AND OAT PERFORMANCE TESTS IN CALIFORNIA[1]

L. F. Jackson[2], J. Dubcovsky[3], L.W. Gallagher[3], R. L. Wennig[4], J. Heaton[4], H. Vogt[4], L. K. Gibbs[4], D. Kirby[5], M. Canevari[6], H. Carlson[6], T. Kearney[6], D. Marcum[6], B. Marsh[6], M. C. Mathews[6], D. Munier[6], C. Mutters[6], S. Orloff[6], J. Schmierer[6], M. Smith[6], R. Vargas[6], J. Williams[6], and S. Wright[6]

University of California Cooperative Extension regional cereal evaluation tests were conducted in the intermountain valleys of northeastern California; the Sacramento, San Joaquin, and Imperial Valleys; and in the south central coastal region [illegible] cultivars, new and soon-to-be released cultivars, and advanced breeding lines

TABLE 37. 1999 UC DAVIS COMMON WHEAT TEST, QUALITY EVALUATION

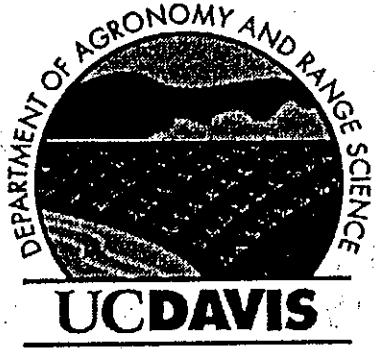
		WHEAT					FLOUR				FARINOGRAPH					BREAD		
ENTRY		PRO	ASH %	HARD	TEST WT	1000 KWT	YIELD	PRO	FALL NO.	WET GLUT	ABSP	ARR	MIX PK	MT	M.T.I.	VOL	TEXT	SCOR
CULTIVARS																		
20	ANZA	10.8	1.5	71	65.6	41.9	72.0	9.5	378	27.0	66.7	1.8	3.5	4.3	90	780	U	1
112	YECORA ROJO	13.6	1.7	58	65.1	56.8	71.3	12.0	396	33.0	64.7	2.5	7.5	12.5	40	925	S	4
353	YOLO	10.0	1.5	68	65.5	40.8	73.1	8.7	388	26.1	61.8	1.5	3.0	4.0	85	775	U	1
415	KLASIC	13.6	1.6	53	66.3	61.6	72.0	11.9	376	32.6	65.1	7.3	14.0	12.0	30	915	S	4
638	SERRA	11.7	1.5	61	66.2	51.1	73.8	10.1	356	24.0	59.0	1.5	9.8	28.3	20	855	S	3
788	EXPRESS	12.3	1.6	73	65.2	46.6	69.8	10.8	358	30.8	68.8	5.8	15.0	22.3	30	940	S	4
827	CAVALIER	13.2	1.5	61	64.8	56.2	71.0	11.9	416	31.1	63.9	25.0	9.0	22.0	-	950	S	5
901	BROOKS	12.2	1.6	69	65.5	50.4	68.7	11.0	408	28.7	66.1	9.5	22.0	20.5	10	910	S	4
976	RSI 5	11.0	1.5	71	65.4	39.2	72.1	9.6	360	23.4	66.0	1.5	3.0	4.5	95	765	U	1
1020	BONUS	12.4	1.6	65	65.6	51.1	71.0	10.9	318	28.8	64.1	1.8	7.5	17.3	20	880	S	3
1036	KERN	13.1	1.6	67	65.3	50.0	68.3	11.6	321	29.3	67.6	2.5	23.0	30.0	20	975	S	5
1130	STANDER	10.7	1.6	63	66.4	51.2	70.0	9.4	323	29.6	66.4	7.0	19.5	18.5	30	960	S	5
1193	SUNSTAR KING	12.3	1.8	72	65.7	45.9	72.4	11.0	369	28.6	65.1	7.0	17.0	19.0	20	845	S	2
1203	CHIEF	11.7	1.6	69	65.9	56.1	71.8	10.5	361	28.8	66.8	1.3	7.5	27.3	5	840	S	2
1204	TOPIC	12.8	1.7	63	65.2	51.0	70.0	10.6	317	29.8	63.3	1.8	6.3	10.5	40	900	S	4
ADVANCED LINES																		
1085	UCD 94-157R	12.7	1.6	50	66.3	47.9	65.8	11.6	392	27.8	60.8	1.5	6.8	38.0	30	860	S	3

99-0463

TABLE 38. 1999 KINGS COMMON WHEAT TEST, QUALITY EVALUATION

ENTRY	WHEAT PRO %	ASH	HARD	TEST WT	1000 KWT	FLOUR YIELD	PRO	FALL NO.	WET GLUT	FARINOGRAPH ABSP	ARR	MIX PK	MT	M.T.I.	BREAD VOL	TEXT	SCORE
CULTIVARS																	
20 ANZA	12.7	1.4	79	63.4	30.9	72.0	11.4	496	27.0	63.7	2.3	5.3	7.8	50	890	S	3
112 YECORA ROJO	14.6	1.4	64	64.7	50.1	72.0	13.0	426	33.7	64.6	6.0	14.3	14.8	40	940	S	4
353 YOLO	13.0	1.6	77	62.3	29.4	71.0	11.4	426	32.7	61.8	3.0	7.5	13.0	30	930	S	4
415 KLASIC	14.6	1.5	58	65.3	50.4	72.9	12.5	374	33.2	63.2	9.0	17.0	15.5	30	950	S	5
638 SERRA	13.2	1.4	67	63.8	37.6	71.4	11.6	368	24.9	59.8	6.5	27.0	31.5	10	1005	S	5
788 EXPRESS	14.7	1.5	75	63.4	38.4	71.0	13.0	434	37.2	65.6	3.5	7.5	18.5	20	950	S	5
827 CAVALIER	14.1	1.4	63	64.3	50.0	69.7	12.5	396	33.3	61.4	2.0	10.0	25.0	20	910	S	4
901 BROOKS	14.2	1.5	67	64.6	45.8	71.1	12.3	399	34.1	62.8	4.0	10.0	16.0	30	840	S	3
976 RSI 5	12.6	1.4	63	64.0	45.0	67.6	11.2	455	30.0	61.3	3.0	10.0	16.3	20	840	S	3
1020 BONUS	14.2	1.5	60	63.7	49.6	71.5	12.9	391	35.0	65.6	6.0	14.0	14.5	20	975	S	5
1036 KERN	13.6	1.5	55	65.6	47.6	73.9	12.0	363	33.4	62.6	4.5	10.0	12.0	40	940	S	4
1130 STANDER	13.1	1.6	58	63.3	42.9	72.9	11.8	387	29.8	59.6	3.0	10.0	15.0	20	875	S	3
1193 SUNSTAR KING	14.0	1.6	71	64.9	41.5	73.0	12.6	428	32.1	64.8	6.5	14.0	5.0	20	1010	S	5
1203 CHIEF	14.0	1.4	71	64.2	45.3	70.7	12.2	413	32.7	64.6	3.0	9.5	29.5	20	980	S	5
1204 TOPIC	13.8	1.5	63	64.2	47.3	69.4	12.0	353	33.9	63.6	3.0	8.0	15.0	5	935	S	4
ADVANCED LINES																	
1085 UCD 94-157R	14.5	1.5	67	65.4	48.2	71.2	12.7	353	34.7								

99004603



AGRONOMY PROGRESS REPORT

Agricultural Experiment Station Cooperative Extension

October 2000 • No. 272

2000 REGIONAL BARLEY AND COMMON AND DURUM WHEAT PERFORMANCE TESTS IN CALIFORNIA[1]

L. F. Jackson[2], J. Dubcovsky[3], L.W. Gallagher[3], R. L. Wennig[4], J. Heaton[4], H. Vogt[4], L. K. Gibbs[4], D. Kirby[5], M. [illegible] [illegible] Schmierer[6], R. Vargas[6], J.

TABLE 37. 2000 KINGS COMMON WHEAT TEST, QUALITY EVALUATION

Entry	Name	Wheat					Flour					Farinograph					Bread		
		Pro	Ash	Hard	Test Wt	1000 Kwt	Yield	Pro	Ash	Fall No	Wet Glut	Absp	Arr	Mix Pk	MT	M.T.I.	Vol	Text	Score
CULTIVARS																			
20	ANZA	11.4	1.5	75	64.6	37.6	69.5	9.9	0.43	302	29.7	61.4	1.50	5.00	5.50	95	775	u	1
112	YECORA ROJO	13.8	1.51	70	65.5	43.3	71.2	12.3	0.39	324	31.5	66.0	7.00	12.50	12.75	25	1030	s	5
353	YOLO	11.4	1.59	84	61.8	26.1	70.4	10.0	0.43	354	28.5	57.4	1.25	3.25	8.50	50	870	s	3
415	KLASIC	11.8	1.49	71	66.1	42.4	72.6	10.5	0.38	322	25.9	63.1	7.50	14.50	13.50	25	975	s	5
638	SERRA	11.9	1.58	72	63.6	37.8	73.2	10.1	0.44	310	21.5	56.3	1.25	8.75	19.25	15	885	s	3
788	EXPRESS	12.6	1.49	81	63.7	38.9	69.7	11.1	0.42	378	33.4	70.0	4.50	9.00	8.25	60	985	s	5
827	CAVALIER	12.4	1.63	74	63.0	41.1	73.2	11.4	0.38	337	29.1	63.2	5.00	12.75	13.50	45	980	s	5
901	BROOKS	12.9	1.61	72	64.3	44.7	73.6	11.7	0.37	363	30.1	68.9	6.00	11.00	12.50	20	925	s	4
970	CUYAMA	10.9	1.63	87	62.5	34.8	70.7	9.2	0.43	344	23.0	68.4	5.50	12.00	12.50	30	900	s	4
976	RSI 5	10.5	1.58	69	63.3	42.5	72.2	8.5	0.40	350	22.7	64.7	1.75	6.75	8.00	60	845	s-q	2
1020	BONUS	13.4	1.58	71	62.9	44.0	72.3	11.7	0.39	334	23.4	69.3	5.00	10.25	12.00	30	940	s	4
1036	KERN	12.9	1.41	65	65.2	41.7	75.2	11.2	0.38	311	28.6	66.2	4.50	8.75	9.75	40	970	s	5
1130	STANDER	12.2	1.53	67	63.8	42.5	75.0	11.0	0.41	334	28.5	66.0	4.00	9.00	8.50	55	920	s	4

9900403

Released: April 23, 2001

California Wheat Variety Survey--2001

Published by: California Wheat Commission, P.O. Box 2267, Woodland, CA 95776
Also available on the Web at http://www.californiawheat.org

VARIETIES		SACRAMENTO VALLEY	SAN JOAQUIN VALLEY	COAST	SOUTHERN CALIFORNIA	SIERRA AND NO. CALIF.	VARIETY TOTALS	2000 TOTALS
WHITE VARIETIES								
Alpowa	Acres					300	300	990
	Percent *					0.1%	0.1%	0.2%
Dirkwin	Acres	400	14,000	2,400		2,000	18,800	15,400
	Percent	0.1%	2.8%	0.5%		0.4%	3.8%	3.1%
Klasic	Acres	350	15,000				15,350	12,642
	Percent	0.1%	3.0%				3.1%	2.5%
Stephens	Acres					1,200	1,200	1,290
	Percent					0.2%	0.2%	0.3%
Twin	Acres					3,000	3,000	1,243
	Percent					0.6%	0.6%	0.2%
Yamhill	Acres					6,700	6,700	5,000
	Percent					1.3%	1.3%	1.0%
Other/Unknown White	Acres	100	2,500	600		300	3,500	734
	Percent	0.0%	0.5%	0.1%		0.1%	0.7%	0.1%
RED VARIETIES								
Anza	Acres	25,300	3,300	4,500			33,100	26,599
	Percent	5.1%	0.7%	0.9%			6.6%	5.3%
Bonus	Acres	35,000	87,000				122,000	35,011
	Percent	7.0%	17.4%				24.4%	6.9%
Brooks	Acres		60,000				60,000	75,854
	Percent		12.0%				12.0%	15.1%
Cuyama	Acres	500	1,000				1,500	3,000
	Percent	0.1%	0.2%				0.3%	0.6%
Eldon	Acres		3,500				3,500	NA
	Percent		0.7%				0.7%	
Express	Acres	57,000	18,000			500	75,500	77,323
	Percent	11.4%	3.6%			0.1%	15.1%	15.3%
RSI-5	Acres	2,000	500				2,500	84,373
	Percent	0.4%	0.1%				0.5%	16.7%
Serra	Acres	8,800					8,800	10,936
	Percent	1.8%					1.8%	2.2%
Stander	Acres	13,000	1,600				14,600	6,606
	Percent	2.6%	0.3%				2.9%	1.3%
Yecora Rojo	Acres	350	82,000	8,300	23,000	300	113,950	120,759
	Percent	0.1%	16.4%	1.7%	4.6%	0.1%	22.8%	24.0%
Yolo	Acres	8,500					8,500	9,458
	Percent	1.7%					1.7%	1.9%
Other/Unknown	Acres	1,800	3,400		1,500	500	7,200	16,605
Red	Percent	0.4%	0.7%		0.3%	0.1%	1.4%	3.3%
TOTAL (ALL WHEAT OTHER THAN DURUM)		153,100	291,800	15,800	24,500	14,800	500,000	503,823
		30.6%	58.4%	3.2%	4.9%	3.0%	100.0%	100.0%

* Percent of "All wheat other than Durum" (500,000 acres)

REPRODUCE LOCALLY. *Include form number and edition date on all reproductions.* FORM APPROVED - OMB NO. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S)
RESOURCE SEEDS, INC.

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER
RSI 95W10108

3. VARIETY NAME
STANDER

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP, and Country)*
P.O. BOX 1319
Gilroy, CA 95021

5. TELEPHONE *(include area code)*
408/847-1051

6. FAX *(include area code)*
408/847-0604

7. PVPO NUMBER
9900403

8. Does the applicant own all rights to the variety? *Mark an "X" in appropriate block.* If no, please explain. [X] YES [ ] NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company? [X] YES [ ] NO
If no, give name of country

10. Is the applicant the original owner? [X] YES [ ] NO *If no, please answer one of the following:*

a. If original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. national(s)?
[ ] YES [ ] NO If no, give name of country

b. If original rights to variety were owned by a company(ies), is(are) the original owner(s) a U.S. based company?
[ ] YES [ ] NO If no, give name of country

11. Additional explanation on ownership *(if needed, use reverse for extra space)*:

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.

2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.

3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.